



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/443,115	11/18/1999	MASAHIKO MURATA	862.3138	6777
5514	7590	05/05/2004	EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO			WALLERSON, MARK E	
30 ROCKEFELLER PLAZA			ART UNIT	
NEW YORK, NY 10112			PAPER NUMBER	
			2626	

DATE MAILED: 05/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/443,115

Applicant(s)

MURATA ET AL.

Examiner

Mark E. Wallerson

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE \_\_\_\_ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☐ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

**Part III DETAILED ACTION**

*Notice to Applicant(s)*

1. This action is responsive to the following communications: amendment filed on 2/23/04.
2. This application has been reconsidered. Claims 1-13 are pending.

*Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1, 4, 5, 6, 10, 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Tai et al (Tai) (U. S. 6,466,331).

With respect to claims 1, 4, 5, 10, and 13, Tai discloses an image processing apparatus (figure 2) comprising a plurality of rendering sections (140 and 150) arranged to respectively render color component data (column 6, lines 1-6) on the basis of data common to the respective

color components (the scanned document), wherein each rendering section receives the common data and renders the common data into one of the color components (figure 2), and a converter (160) to convert the rendered color images into images for printing (column 9, line 62 to column 10, line 25).

With respect to claim 6, Tai discloses a delay section to compensate for timing differences in forming the color component images in the print engine (column 2, lines 14-24).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 2, 3, 7, 8, 9, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tai in view of Kawamoto (U. S. 5,978,563).

With respect to claims 2, 3, 11, and 12, Tai differs from claims 2, 3, 11 and 12 in that he does not clearly disclose the rendering devices comprise a memory having a capacity large enough to render at least a two band color component image obtained by dividing a page into bands. Kawamoto discloses plural rendering devices comprising memory large enough to render at least a two-band color component image obtained by dividing a page image into bands (column 6, lines 51-67 and column 8, lines 40-61). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Tai wherein the page is divided into bands. It would have been obvious to one of ordinary skill in the art at the time of

the invention to have modified Tai by the teaching of Kawamoto in order to improve the processing speed.

With respect to claims 7 and 8, Tai differs from claims 7 and 8 in that he does not clearly disclose the common data is made up of a display list and print element data. Kawamoto discloses the color component is made up of a display list and print element data (image data) (column 10, line 20 to column 11, line 55), wherein the display list is a list of print elements obtained by dividing a print image and arranged in an order of occurrence (column 10, line 64 to column 11, line 28). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Tai wherein the common data is made up of a display list and print element data. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Tai by the teaching of Kawamoto in order to more clearly define the input image stream.

#### ***Response to Arguments***

7. Applicant's arguments filed 2/23/04 have been fully considered but they are not persuasive. Applicant submits that Tai does not disclose plural rendering sections arranged to generate a respective one of plural color components wherein each rendering section receives data common to the respective color components and renders the common data. The Examiner disagrees.

Tai discloses plural rendering sections (140 and 150) arranged to generate a respective one of plural color components(column 6, lines 1-15) wherein each rendering section receives

data common to the respective color components and renders the common data (column 6, lines 1-15 and lines 45-65 and column 7, lines 37-56).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark E. Wallerson whose telephone number is (703) 305-8581. The examiner can normally be reached on Monday-Friday - 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark E. Wallerson  
Primary Examiner  
Art Unit 2626

